BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Construction Of RO Plant in ward No:03

Measurement Sheet

First and Final Bill

Item No:	1
Item Name:	KSRB 2-1.1: Earth work in surface excavation in hard soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3 1,P. No. 5/ Item No. 2.2/ PWD SR 2016-17

Premeasurement recorded on.

SLNO	CHAINAGE Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
	Levelling and Lowering									
	0.00	5.00	1	5.00	5.00	5.00	5.00	0.40	10.00	
								Total Qty Work Done	10.00	**Cum**
								Qty Payable in this bill	10.00	**Cum**

Contractor

Assistant Engineer

15/1/2024

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no:03

Measurement Sheet

First and Final Bill

Item No:	2
Item Name:	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2016-17

Premeasurement recorded on:

SLNO	CHAINAGE Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant								
	For SSM								
	Shed								
	0.00	3.70	4	3.70	0.90	0.90	0.90	0.90	11.99
	Platform								
	0.00	1.75	4	1.75	0.90	0.90	0.90	0.90	5.67
								Total Qty Work Done	**17.66 Cum**
								Qty Payable in this bill	**17.66 Cum**

Contractor

Assistant Engineer

20/1/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no:03

Measurement Sheet

First and Final Bill

Item No:	3
Item Name:	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100 4.1 costof haulage excluding loading and unloading MORTH to a distance of

Measurement recorded on:

SLNO	CHAINAGE / Land Mark		NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
	Levelling and Lowering									
	0.00	5.00	1	5.00	5.00	5.00	5.00	0.40	10.00	
	For SSM									
	Shed									
	0.00	3.70	4	3.70	0.90	0.90	0.90	0.90	11.99	
	Platform									
	0.00	1.75	4	1.75	0.90	0.90	0.90	0.90		
								Total Qty Work Done	27.66	**Cum**
								Qty Payable in this bill	27.66	**Cum**

Contractor

Assistant Engineer

8/2/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no 03

Measurement Sheet

First and Final Bill

5

KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, No. 6/ Item No. 2.10/ PWD SR 2016-17

Premeasurement recorded on:

CHAINAGE / Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
RO Plant									
For SSM									
Inside Floor									
0.00	3.60	1	3.60	3.60	3.60	3.60	0.40	5.18	
Platform Floor									
0.00	1.60	1	1.60	1.60	1.60	1.60	0.40	1.02	
							Total Qty Work Done	6.21	Cum
							Qty Payable in this bill	6.21	Cum

Contractor

Assistant Engineer

15/2/2024

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no.03

Measurement Sheet

First and Final Bill

m No: 7

tem ame: KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2016-17

Premeasurement recorded on:

LNO	CHAINAGE Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
	For SSM 2nd Step									
	Shed									
	0.00	3.70	4	3.70	0.60	0.60	0.60	0.60	5.33	
	Platform									
	0.00	1.75	4	1.75	0.45	0.45	0.45	0.40	1.26	
	For Steps									
	0.00	2.80	1	2.80	0.30	0.30	0.30	0.80	0.67	
	0.00	2.20	1	2.20	0.30	0.30	0.30	0.60	0.40	
	0.00	1.80	1	1.80	0.30	0.30	0.30	0.40	0.22	
	0.00	1.10	1	1.10	0.30	0.30	0.30	0.20	0.07	
								Total Qty Work Done	7.94	**Cum**
								Upto 125%	6.48	**Cum**
								Above 125%	1.46	**Cum**

Contractor

Assistant Engineer

12/2/2024

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no:03

Measurement Sheet

First and Final Bill

m No	8
Item lame	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 112/ Item No. 15.1 PWD SR 2016-17

Premeasurement recorded on:

LNO	CHAINAGE Land Mark		NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
	For SSM 2nd Step									
	Shed									
	0.00	3.70	8	3.70				0.60	17.76	
	Platform									
	0.00	1.75	8	1.75				0.40	5.60	
								Total Qty Work Done	23.36	**Sqm**
								Upto 125%	12.80	**Sqm**
								Above 125%	10.56	**Sqm**

Contractor

Assistant Engineer

24/2/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no:03

Measurement Sheet

First and Final Bill

Item No:	9
Item Name:	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed 2008 machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification No KBS 4.1.4.6 No KBS 4.1.4.6 No 13/ Item No 4.11/ PWD SR 2016-17

Premeasurement recorded on:

SLNO	CHAINAGE Land Mark		NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
	Inside Floor									
	0.00	3.60	1	3.60	3.60	3.60	3.60	0.10	1.30	
	Platform Floor									
	0.00	1.60	1	1.60	1.60	1.60	1.60	0.10	0.26	
	Coping on SSM									
	Shed									
	0.00	3.70	4	3.70	0.45	0.45	0.45	0.10	0.67	
	Platform									
	0.00	1.75	4	1.75	0.45	0.45	0.45	0.10	0.32	
	For Steps									
	0.00	2.80	1	2.80	0.30	0.30	0.30	0.10	0.08	
	0.00	2.20	1	2.20	0.30	0.30	0.30	0.10	0.07	
	0.00	1.80	1	1.80	0.30	0.30	0.30	0.10	0.05	
	0.00	1.10	1	1.10	0.30	0.30	0.30	0.10	0.03	
	For Lintel									
	0.00	1.10	1	1.10	0.20	0.20	0.20	0.10	0.02	
	0.00	1.10	1	1.10	0.20	0.20	0.20	0.10	0.02	
	0.00	3.70	1	3.70	0.45	0.45	0.45	0.10	0.17	
	For Chejja									
	0.00	1.10	1	1.10	0.45	0.45	0.45	0.05	0.02	
	0.00	1.10	1	1.10	0.45	0.45	0.45	0.05	0.02	
	0.00	3.70	1	3.70	0.45	0.45	0.45	0.05	0.08	
	Sill Concrete									
	Shed									
	0.00	3.70	4	3.70	0.20	0.20	0.20	0.15	0.44	
	Slab Concrete									

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no:03

Measurement Sheet

First and Final Bill

m No: 11

Item Name: KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S. 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 25/ Item No. 5.27/ PWD SR 2016-17

Premeasurement recorded on:

LNO	CHAINAGE / Land Mark		NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
	Shed									
	0.00	3.70	4	3.70				3.50	51.80	
	Parapet Wall									
	0.00	3.70	4	3.70				0.80	11.84	
	Deduction									
	For Windows									
	0.00	0.85	1	-0.85				0.75	-0.64	
	0.00	0.85	1	-0.85				0.75	-0.64	
	0.00	0.60	1	-0.60				0.45	-0.27	
	For Rolling Shutter									
	0.00	2.30	1	-2.30				2.20	-5.06	
								Total Qty Work Done	**57.04**	**Sqm**
								Upto 125%	**49.29**	**Sqm**
								Above 125%	**7.75**	**Sqm**

Contractor

Assistant Engineer

22/3/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no 03

Measurement Sheet

First and Final Bill

n No: **13**

tem me: Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete with all lead and lift and as per the direction of Engineer in-charge.

Premeasurement recorded on:

NO	CHAINAGE Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
	Shed									
	0.00	3.70	8	3.70				3.50	103.60	
	Deduction									
	For Windows									
	0.00	0.85	2	-0.85				0.75	-1.28	
	0.00	0.85	2	-0.85				0.75	-1.28	
	0.00	0.60	2	-0.60				0.45		
	For Rolling Shutter									
	0.00	2.30	2	-2.30				2.20	-10.12	
								Total Qty Work Done	**90.39**	**Sqm**
								Qty Payable in this bill	**90.39**	**Sqm**

Contractor

Assistant Engineer

1/4/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no:03

Measurement Sheet

First and Final Bill

n No	14								
em	Hinges 5" heavyduty								
NO	CHAINAGE		NO	L	B	B1	Avg B	D	QTY	REMARKS
	Land Mark			(m)	(m)	(m)	(m)	(m)		
	RO Plant									
	Hinges 5" heavyduty								16.00	
	0.00	0.00	4	4.00						
								Total Qty Work Done	16.00	Each
								Qty Payable in this bill	16.00	Each

Contractor

Assistant Engineer

5/4/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no.03

Measurement Sheet

First and Final Bill

m No: **14**

Item: MS Clamps

LNO	CHAINAGE / Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
	MS Clamps									
	0.00	0.00	4	4.00					16.00	
								Total Qty Work Done	16.00	Each
								Qty Payable in this bill	16.00	Each

Contractor

Assistant Engineer

8/4/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no:03

Measurement Sheet

First and Final Bill

m No: **17**

Item Name: KSRB 14.13.1.: Providing precast chequered mosaic tiles dark shade using ordinary grey cement for steps and flooring, with precast 20mm thick, using marble chips of approved colour 7 to 10 nominal size laid in floors, steps and landings on a bed of 12mm thick cement mortar 1:6, mix, jointed with neat cement slurry mix with pigment to match the shade of tiles curing, rubbing, polishing , oxalic acid wash, wax polish, including cost of materials, labour, HOM machinery complete as per specifications. Page No 112/ Item No. 14.28 SR 2016-17

LNO	CHAINAGE Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
	outside Floor									
	0.00	2.80	1	2.80	2.50	2.50	2.50		7.00	
	outside Floor									
	0.00	1.70	1	1.70	1.55	1.55	1.55		2.64	
								Total Qty Work Done	9.64	Sqm
								Upto 125%	05.00	Sqm
								Above 125%	4.64	Sqm

Contractor

Assistant Engineer

16/4/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no:03

Measurement Sheet

First and Final Bill

n No: 20

tem ame: KSRB 15.15.1: Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth cost of materials, labour, complete as per specifications. with primer. Page No.113/ Item No. 15.51.2 / PWD SR 2016-17

Premeasurement recorded on:

LNO	CHAINAGE / Land Mark		NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
	Shed									
	0.00	3.70	4	3.70				3.50	51.80	
	Parapet Wall									
	0.00	3.70	4	3.70				0.80	11.84	
	Deduction									
	For Windows									
	0.00	0.85	1	-0.85				0.75	-0.64	
	0.00	0.85	1	-0.85				0.75	-0.64	
	0.00	0.60	1	-0.60				0.45	-0.27	
	For Rolling Shutter									
	0.00	2.30	1	-2.30				2.20	-5.06	
								Total Qty Work Done	**57.04**	**Sqm**
								Upto 125%	**10.28**	**Sqm**
								Above 125%	**46.76**	**Sqm**

Contractor

Assistant Engineer

19/4/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no 03

Measurement Sheet

First and Final Bill

		Electrification, Wiring and Lighting etc to RO Plant
m No	**1 (2.3.1)**	
Item lame:	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. GROUP A KPWD ELectrica SR for 2014-15 2 3 1) Short point upto 3Mtr from tapping point to out let via switch box KPWD ELectrica SR for 2014-15	

LNO	CHAINAGE / Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant									
			3						3.00	
								Total Qty Work Done	**3.00**	**Point**
								Qty Payable in this bill	**3.00**	**Point**

Contractor

Assistant Engineer

22/4/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no.03

Measurement Sheet

First and Final Bill

n No	2
tem ame:	Open Conduit System Supplying heavy gauge PVC conduit pipe ..... dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.1.1.1) 19/20mm dia 2mm thick KPWD ELectrica SR for 2014-

Premeasurement recorded on:

NO	CHAINAGE / Land Mark	NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant								
		5						5.00	
								5.00	mtrs
								5.00	mtr

Contractor

Assistant Engineer 27/4/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no.03

Measurement Sheet

First and Final Bill

		Electrification, Wiring and Lighting etc to RO Plant
lo:	4	

Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete

1.6.3) 10"x7"x3" (254x178x76mm)

)	CHAINAGE / Land Mark	NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant								
		1						1.00	
							Total Qty Work Done	1.00	**Each**
							Qty Payable in this bill	1.00	**Each**

Contractor

Assistant Engineer

31/5/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no.03

Measurement Sheet

First and Final Bill

Item No:	6
Item Name:	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board GROUP A KPWD ELectrica SR for 2014-15 3.15.1) 6Amps SP Switch

Premeasurement recorded on:

S.NO	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant								
		2						2.00	
							Total Qty Work Done	**2.00**	**Nos**
							Qty Payable in this bill	**2.00**	**Nos**

Contractor

Assistant Engineer

12/5/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no.03

Measurement Sheet

First and Final Bill

No: 8

Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898

6.16.1) 5-32Amps SP KPWD Electrica SR for 2014-15

Premeasurement recorded on:

NO	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant								
		1						1.00	
								1.00	Each
								1.00	Each
	Qty Payable in this bill								

Contractor

Assistant Engineer

21/5/2021

Asst. Executive Engineer,

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RO Plant in ward no:03

Measurement Sheet

First and Final Bill

No:	14
	INSULATED CABLE ON MESSENGER WIRE Using 2 single core wires for a single phase and 4 single core wires for 3 phase. Supplying and stringing PVC insulated and PVC sheathed 650/1100V class aluminium conductor of size supported by 3.15mm (10 SWG) GI messenger wire with two break insulators one at each end of the span with suspenders at intervals of 0.75m. Each suspender shall be of porcelain reel insulator of suitable core through which insulated wire passes(single core or twin core as the case may be) and this reel insulator shall be fixed to the messenger wire using 2mm (No.14SWG) GI wire suitably bent and twisted. Separate reely insulator shall be provided for each wire, the messenger wire shall be ded-ended on the clamp provided to the departmental pole wide item No.4 above (Page No.56 item No.5 a)Single Phase using 2 Wire c) 16 Sqmm KPWD ELectrica SR for 2014-15

Premeasurement recorded on:

SNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	RO Plant								
		20						20.00	
							Total Qty Work Done	**20.00**	**R mtr**
							Qty Payable in this bill	**20.00**	**R mtr**

Contractor

Assistant Engineer

28/5/2021

Asst. Executive Engineer,